"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

KALENOV, A.D.; ANIKEYEVA, V.I.; MASLENKOV, S.B.

Germanium minerals in pyritic copper ores. Dokl.AN SSSR 149 no.3:675-676 Mr '63. (MIRA 16:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut redkometallicheskoy promyshlennosti. Predstavleno akademikom V.I. Smirnovym. (Germanium)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

KALENOV, A.D.; ANIKEYEVA, V.I.; SOKOVA, K.P.

Case of a complicated replacement of loparite. Dokl. AN SSSR 152 no.1:183-190 S '63. (MIRA 16:9)

1. Predstavleno akademikom D.S.Korzhinskim.
(Soviet Far East--Loparite)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

RADIN, A.Ya., kand. tekhn. nauk; Prinimali uchastiye: ANIKEYEVA, V.P., inzh.; SHAKHGEL'DYAN, M.S.

Mechanism of the action of flux in melting aluminum. Trudy MATI no.56:45-70 '63. (MIRA 16:6)

(Aluminum founding)
(Flux(Metallurgy))

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKHANOV, P.A.; MINERVIN, G.V.; TSAREV, S.A.

Automatic control in die stamping. [Izd.] LONITOMASH vol.40:194-205 '56. (MLRA 10:4)
(Sheet metal work) (Automatic control)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKHANOVA, M. D.

Sep 48

USSR/Medicine - Surgery
Medicine - Ganglion, Stellate

"Surgical Approach to the Stellate Ganglion and the Upper Sympathetic Ganglion Trunk in the Chest," M. D. Anikhanova, Chair of Operative Surg, Second Leningrad Med Inst, 6½ pp

"Khirurgiya" No 9

Discusses various surgical methods. Concludes that a frontal cervical incision facilitates approach to stellate ganglion as compared to dorsal incision but makes approach to second thoracic ganglion more difficult; third thoracic ganglion cannot be reached.

15/49T81

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKHANOVA, M.D., kand.med.nauk (Leningrad, D-88, ul.Zhelyabova, d.13,kv.52)

Details of the topography of the blood vessels and hepatic ducts in the region of the liver. Vest.khir. 90.no.3:59-64 Mr'63. (MIRA 16:10)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. - prof. K.A.Grigorovich) Leningradskogo sanitarno- Gigiyenicheskogo meditsinskogo instituta.

(HEPATIC VEINS) (HEPATIC ARTERY)
(BILE DUCTS)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.

Stock exchange after the Second World War. Den. i kred. 20 no.12:79-88 D '62. (MIRA 16:1)

(Stock exchange)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

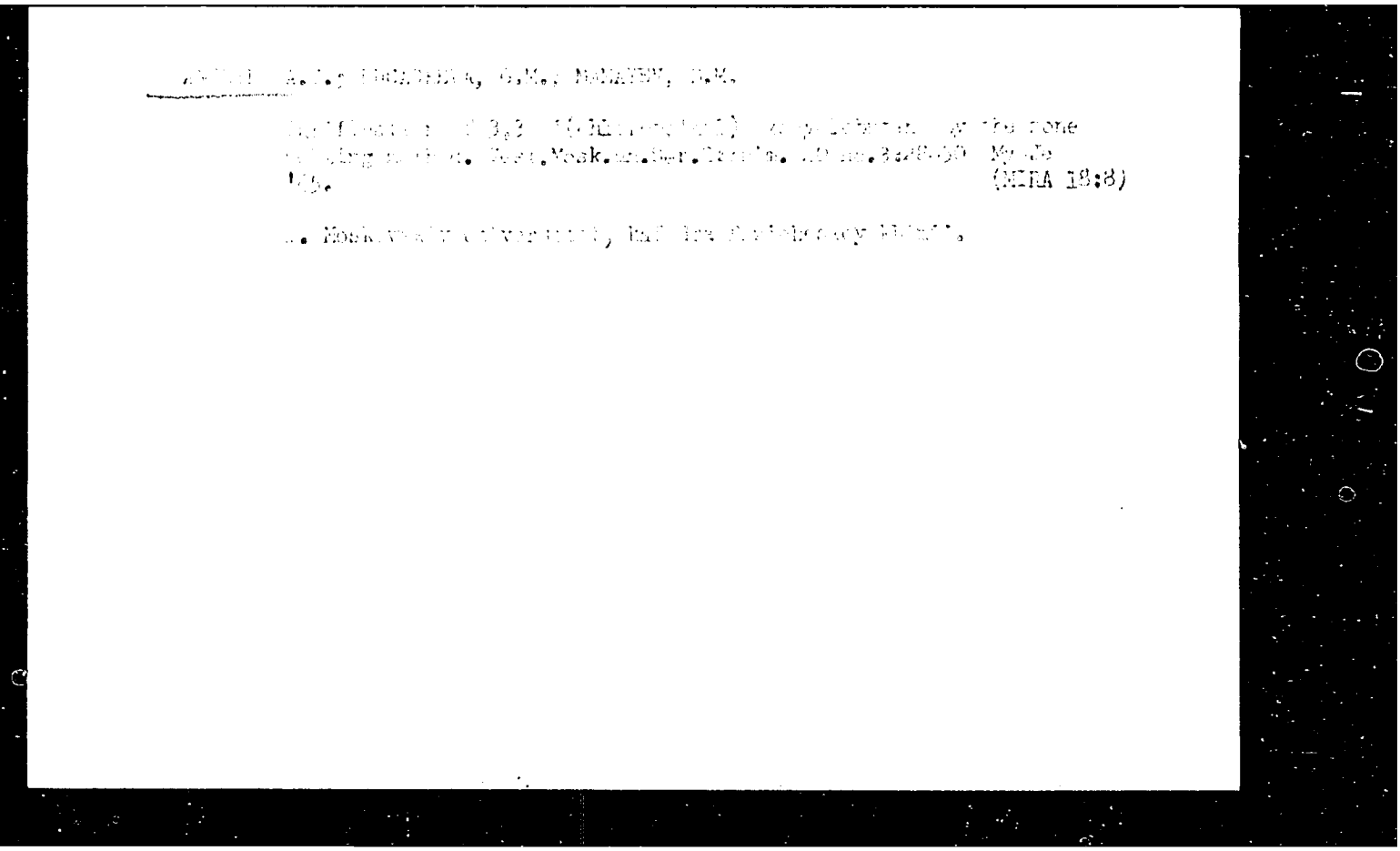
"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.A., inzhener.

Use of a welded assembly for the installation of power transformers.
Elek.sta. 24 no.5:47 My '53. (MLRA 6:7)
(Electric transformers)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A. D.

"Some Problems in Extrapleural Pneumothorax," Khirurgiya, 68, No.2, 1948

Hosp. Surgical Clinic, Pediatrics Med. Inst.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.F., assistent

Case of necrobacillosis in man. Vest.ven. i derm. 30 no.5:53-54 S-O '56. (MLRA 9:12)
(SKIN--DISEASES)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.F.

Necrobacillosis in man. Vrach. delo no.10:143-145 O '61.
(MIRA 14:12)

1. Klinika kozhnykh i nevericheskikh bolezney (zav. - prof. G.G. Kondrat'yev) Omskogo meditsinskogo instituta imeni M.I.Kalinina.
(NECROSIS, BACILLARY)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

TEOKHAROV, B.A., prof.; ANIKIN, A.F.; KLINYSHKOVA, V.M.

Experience with peroral therapy of utogenital trichomoniases with flagyl. Vest. derm. i ven. 37 no.7:62-66 Jl '63 (MIRA 16:12)

1. Kafedra kozhnykh i venericheskikh bolezney (zav. - prof. B.A. Teokharov) Omskogo meditsinskogo instituta imeni M.I. Kalinina.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.F.

Frequency of urogenital trichomoniasis incidence in males.
Vest. derm. i ven. 38 no.1:48-52 Ja '64. (MIRA 17:8)

1. Kafedra kozhnykh i venericheskikh bolezney (zav. - prof.
B.A. Teokharov) Omskogo meditsinskogo instituta imeni Kalinina.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.

Endothermal phase of a single muscle contraction in white mice. Doklady Akad. nauk SSSR 87 no. 6:947-948 21 Dec 1952. (CLML 23:5)

1. Presented by Academician A. I. Oparin 22 October 1952. 2. Institute of Biophysics of the Academy of Sciences USSR.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.

Endothermal phase of muscle contraction in frog. Doklady Akad. nauk SSSR 87 no. 5: 727-730 11 Dec 1952. (CIML 23:5)

1. Presented by Academician A. I. Oparin 14 October 1952. 2. Institute of Biophysics of the Academy of Sciences USSR.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A. G.

33269. ANIKIN, A. G. K voprosu o termike kory golovnogo mozga zhivotnykh. (Akademiîa nauk SSSR. Doklady, 1953. t. 92, no. 3, p. 561–64, illus.) 4 refs.

Inst. Biological Physics, AS USSR

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

33269 Cont.

Text in Russian. *Title tr.:* On thermic problems of the cerebral cortex of animals.

Stimulating the eyes of rabbits with light caused a significant change of temperature in the dural membrane of the cortex in the optic centers, differing considerably from conditions in controls. The methods applied and the nature of the phenomenon are discussed.

Copy seen: DSG.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

[illegible], G.M.

Determination of the purity of organic monomers in a hermetic vessel by the cryoscopic method. Zhur. fiz. khim. 38 no.5: 1372-1374 My '64. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
Submitted June 4, 1963.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.; DUGACHEVA, G.M.

Zone melting of acetonitrile. Vest. Mosk. un. Ser. 2: Khim. 20 no.2: 16-19 Mr-Ap '65. (MIRA 18:7)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

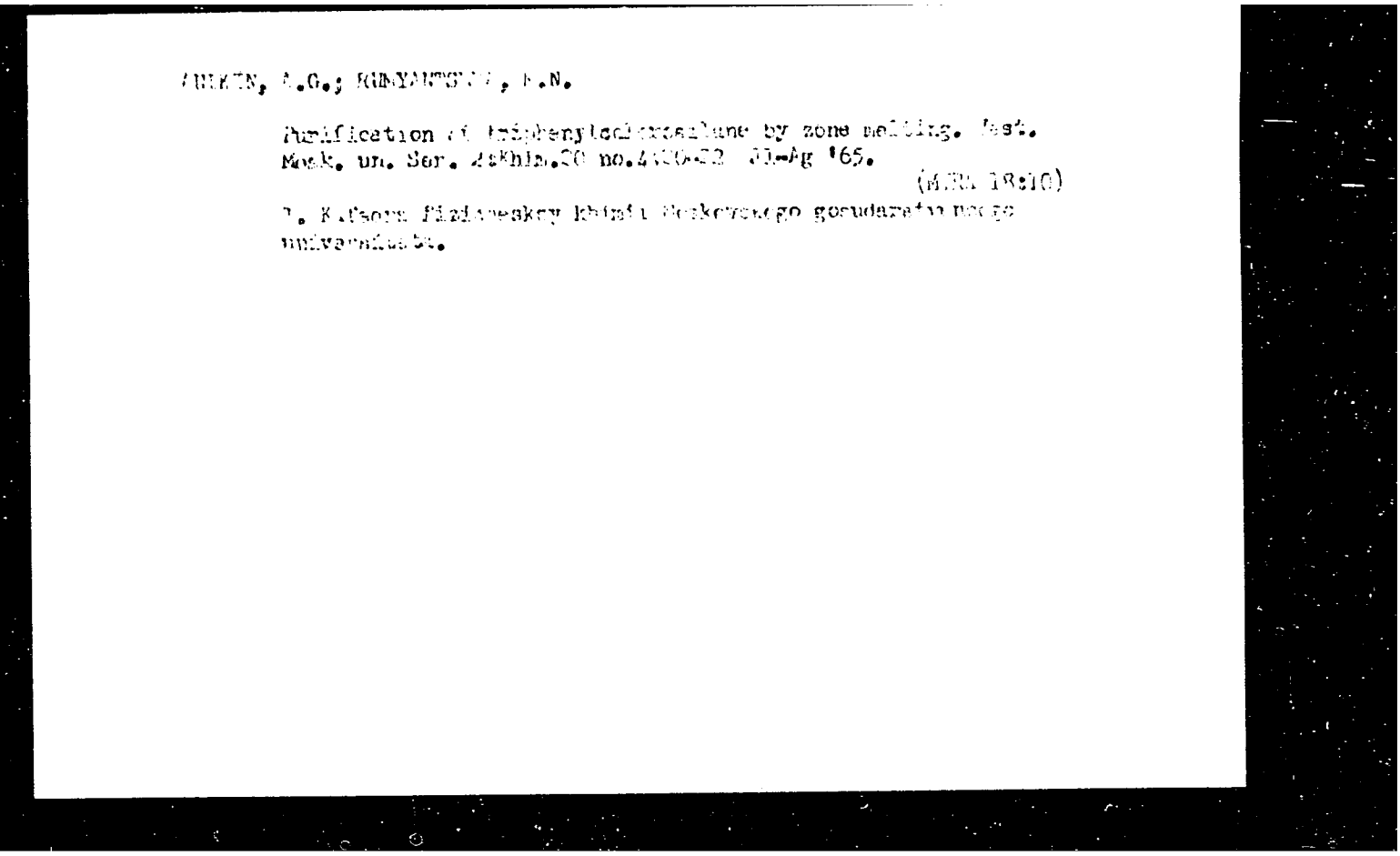
DURACHEVA, G.M.; ANIKIN, A.G.

Distribution of impurities in the process of zone melting. Zhur. fiz. khim. 39 no.3:794-796 Mr '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



[illegible], A.G.; [illegible], P.N.

Purification of triphenylcarbinylsilane by zone melting. Vest. Mosk. un. Ser. 2 Khim. 20 no. 4 [illegible] Jl-Ag '65.
(MIRA 18:10)

1. Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

DUGACHEVA, G.M.; ANIKIN, A.G.; POKAREV, B.S.

Zone sublimation and zone melting of benzoic acid. Zhur.fiz.khim. 39 no.10:2620-2622 O '65.

(MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
Submitted July 30, 1964.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 10963-66 EWT(m)/EWP(j) RM
ACC NR: AP5028257 SOURCE CODE: UR/0189/65/000/004/0020/0022

AUTHOR: Anikin, A. G.; Rumyantseva, M. N.

ORG: Department of Physical Chemistry, Moscow State University (Kafedra fizicheskoy khimii Moskovskogo universiteta)

TITLE: Zone refining of triphenylchlorosilane

SOURCE: Moscow. Universitet. Vestnik. Seriya 2. Khimiya, no. 4, 1965, 20-22

TOPIC TAGS: zone refining, silane

ABSTRACT: The zone refining of triphenylchlorosilane was carried out in a sealed glass tube (see Fig. 1). A ten-pass operation increased the purity of the original compound in the top tenth part of the sample from 99.28 to 99.93 mole %. The effective distribution coefficient was calculated to be 0.5. A redistribution of the impurity could be observed even by an ordinary examination of the glass tube; the upper part of the tube contained transparent crystals of pure triphenylchlorosilane, whereas the lower part contained an impure yellow substance the crystallization temperature of which was 7 degrees below that of the pure compound. The cryoscopic apparatus for determining the purity of the samples through the recording of

Card 1/3 UDC: 541.1.536.7

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 10963-66
ACC NR: AP5028257

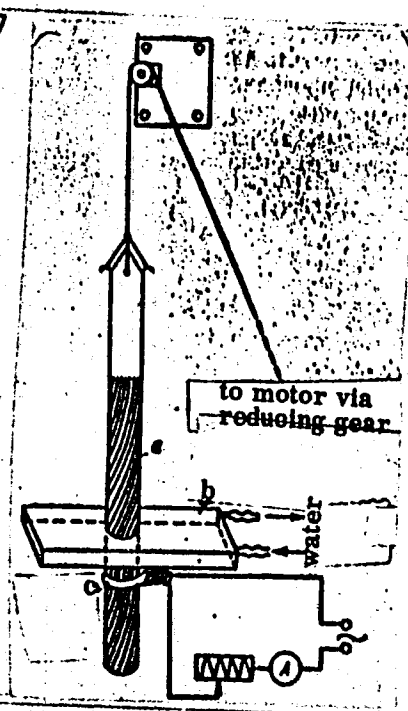


Fig. 1. Diagram of device for zone refining of triphenylchlorosilane:
a - tube with substance for zone refining;
b - cooler;
c - heater

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 10963-66
ACC NR: AP5028257

crystallization curves is described. Orig. art. has: 2 figures and 1 table.

SUB CODE: 07 / SUBM DATE: 29Sep64 / ORIG REF: 006 .

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A. G.

A

2

Thermographic investigation of long chain aliphatic compounds. A. G. Anikin and G. B. Ravich. *Doklady Akad. Nauk S.S.S.R.* 68, 309-11(1949). Triglycerides or higher aliphatic acids are crystd. in a thin layer directly in a microthermocouple, made of 0.05 mm. wire and having a loop instead of the usual junction. The couple with the substance, and a similar blank thermocouple, are placed between 2 slides, in a way ensuring max. thermal insulation from surrounding objects. This procedure permits simultaneous thermal and microscopic examn. of samples of the order of a few tenths of a mg. The method was tested by blank expts., which gave no indication of any thermal effects, then with trilaurin, which gave heating curves identical with those obtained by macromethods.

N. Thon

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A. G. Cand Chem Sci

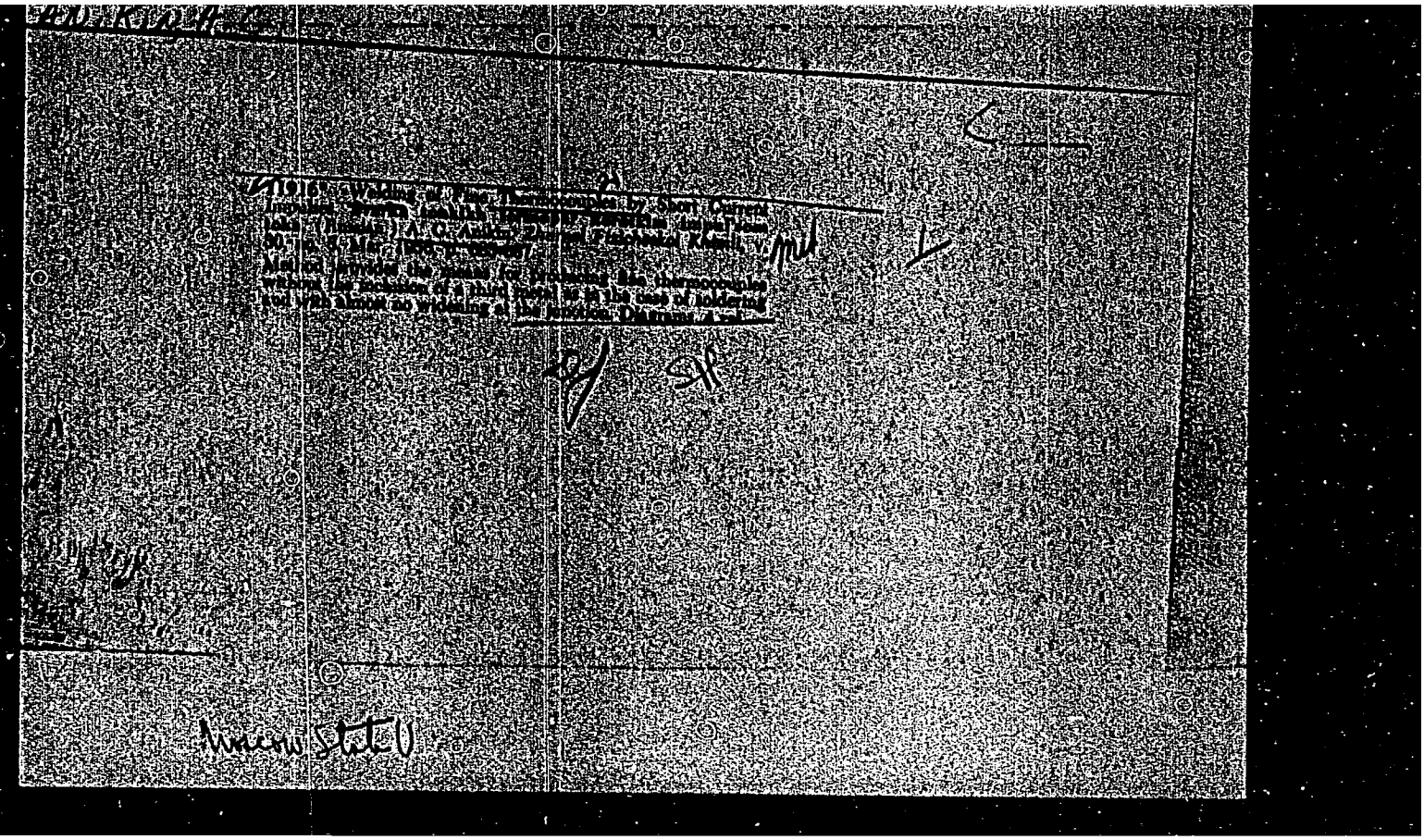
Dissertation: "Micromethods for Thermal and Structural-Thermal Analysis of Organic Substances." 29/3/50

Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR

SO Vecheryaya Moskva
Sum 71

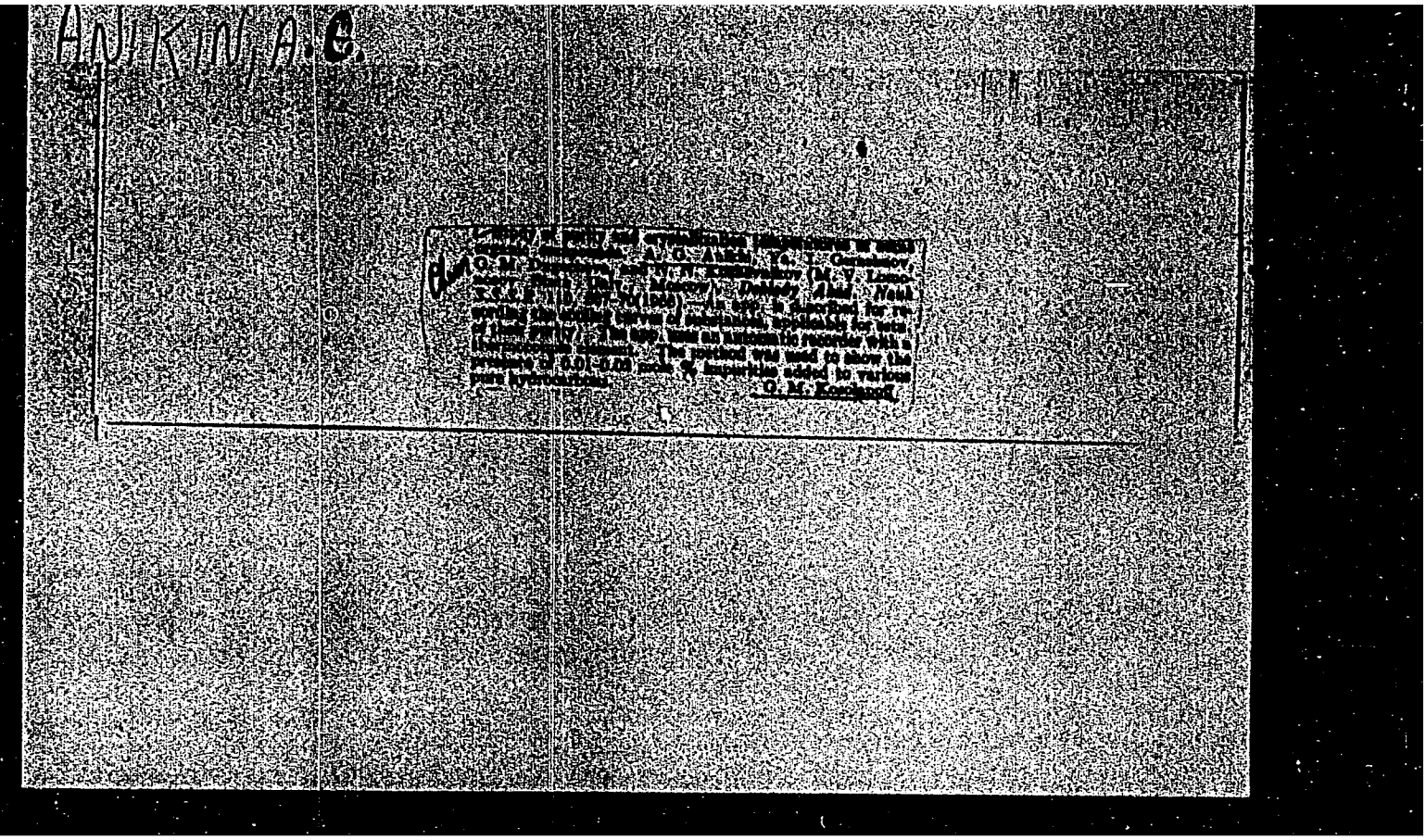
APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

AUTHORS: Anikin,A.G., Dugacheva,G.M., Mel'nikov,A.A. and Plate,A.F. SOV/55-58-1-31/33

TITLE: On the Question About the Production of Pure Organic Preparations (K voprosu o poluchenii chistykh organicheskikh preparatov)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya fiziko-matematicheskikh i yestestvennykh nauk, 1958, Nr 1, pp 227-232 (USSR)

ABSTRACT: During the production of organic preparations defiling admixtures can be avoided only then if not only the final preparation but also the intermediate alloys are cleaned. The degree of purity can be controled best by the determination of the crystallizing curves, since the crystallizing temperature is much more sensitive with respect to defilements than e.g. the specific weight or optical characteristical values. The authors describe the application of this method for the synthesis of the trans - 1.2 - di - n - butylcyclopentane obtained for the first time.
There are 4 references, 2 of which are Soviet, and 2 American.

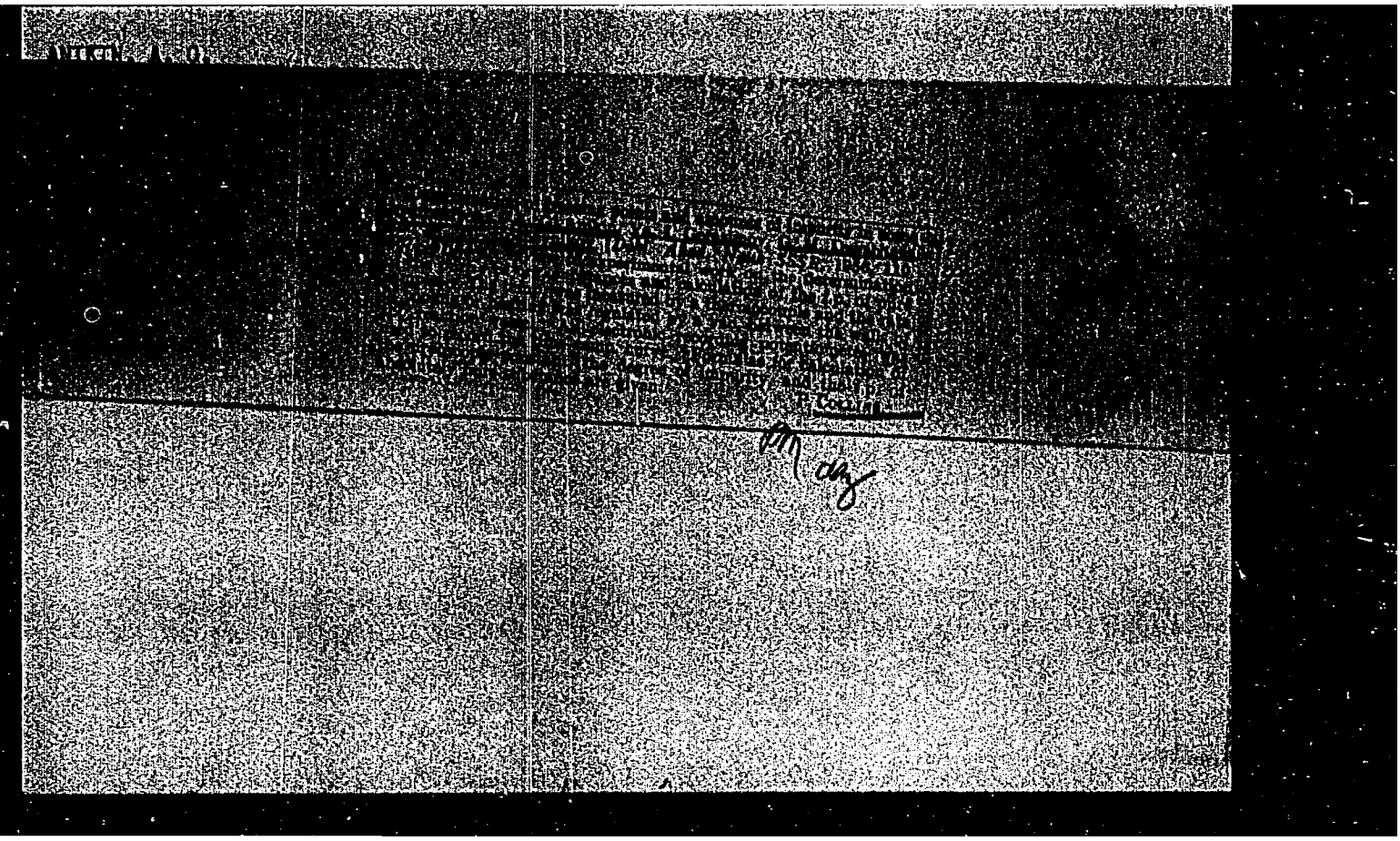
ASSOCIATION: Kafedra khimii nefti (Chair of Petroleum Chemistry)
Kafedra fizicheskoy khimii (Chair of Physical Chemistry)

SUBMITTED: March 5, 1957

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

AUTHORS: Anikin, A. G., Dugacheva, G. M. 20-119-5-[illegible]/59

TITLE: Determination of the Purity and Crystallization Temperature of Some Hydrocarbons in Small Samples (1-2 ml) (Opredeleniye chistoty i temperatury kristallizatsii nekotorykh ugle[illegible]odov [illegible]chestve 1-2 ml)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, No 5, pp. 939-941 (USSR)

ABSTRACT: The certainly most exact and theoretically best founded method by Rossini (references 1,2) can practically not be employed with small quantities of substances, as 40-50 g are needed for it. The aim of the attempt was to reduce the quantity of the sample without impairing the fundamental requirements of the classic method. Most important among those is the maintenance of the thermodynamic equilibrium between the liquid and the [illegible] phase during crystallization. This can practically be attained by an ordinary stirrer. Unfortunately the reduction of the quantity of substance is rendered difficult under these conditions. A survey of works endeavoring to [illegible] this obstacle is given (references 3-5). The present paper does

Card 1/4

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

Determination of the Purity and Crystallization [illegible]
Temperature of Some Hydrocarbons in Small Samples

with a further reduction of the quantity of sample to 1-2 ml without impairing the conditions established by Rossini. This is attained by the diminution of the reaction vessel and a certain modification of the stirrer construction. The simplest stirrer of Rossini (ref 6) is described. The authors used 2 kinds of stirrers. In some cases it was a Ni-chromium wire at one end bent to a [illegible] which forms the diameter of the reaction vessel (figure 1a). In other cases 3 extensions of Ni-chromium were soldered to the ring of Ni-chromium wire in equal distances to each other which serve for stirring the substance (figure 1b). The stirrer moves up and down vertically (as the [illegible]) and makes 60-85 oscillations per minute. The scheme of the measurements on the whole remains the same as described in the paper (ref 6). All further details are described. The quantity of admixtures to the substance and its crystallization temperature are determined according to formulae from the papers by Rossini (references 7,9,10). The simplest one reads: $N_2 = A (t_{1_0} - t_1)$ (1), where N_2 denotes the quantity

Card 2/4

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

Determination of the purity and identification
Temperatures of Some Hydrocarbons in Petrol Samples

Octane, methylcyclopentane and 2,5-dimethylhexane. The
results are given in [illegible]. For the purpose of comparison,
certain qualities of the same substances were investigated
in **parallel** [illegible]. The divergence of the results does
not exceed the experimental error. Otherwise they are in
good agreement with the data of table 1.
There are 2 figures, 1 table, and 8 references, 5 of which
are Soviet.

[illegible]ATION: Moskovskiy gosudarstvennyy universitet im. M. V. [illegible]
(Moscow State University imeni M. V. Lomonosov)

[illegible]: November 30, [illegible], by P. A. Kazanskiy, Member, Academy of
Sciences USSR

[illegible]: November [illegible], 1957

[illegible] 4/4

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

5(4) SOV/20-127-3-31/71

AUTHORS: Anikin, A. G., Gerasimov, Ya. I., Corresponding Member, AS USSR, Gordoyev, I. V.

TITLE: The Absorption of Ultra-high Frequency Oscillations in Aqueous and Alcoholic Solutions of RbCl and CsCl-Salts

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 589-590 (USSR)

ABSTRACT: The present paper is the first of a series of investigations of the above-mentioned oscillations of inorganic and elemental-organic compounds, carried out for the purpose of finding maxima on the obtained curves if there is a dependence between concentration and the temperature. Forman and Crisp (Ref 1) found such maxima for NaCl and CaCl, and it was found that with a decrease of frequency, the maximm shifted to lower concentrations. In the case of even lower frequencies, the maximum would have to shift towards even lower concentrations. This probable state of affairs was investigated in the present paper by means of the salts mentioned in the title within the frequency interval of from 3 - 11 megacycles. For the purpose of being investigated, the solution was introduced into the alternating field of a condenser. Voltage was measured by means of the kilovoltmeter S-96. All experiments were carried

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

The Absorption of Ultra-high Frequency Oscillations in Aqueous and Alcoholic Solutions of RbCl and CsCl-Salts

out under the same conditions : 0.35 a, 3.6 kv, sample volume 5 ml. Absorption was determined from the temperature increase of the solutions at the various concentrations during the same irradiation periods. The data obtained are given by tables 1, 2 and figures 1, 2. Results: of the pure solvents, methyl alcohol absorbed the field more than water, and the alcoholic solutions absorbed more than the aqueous ones. The comparative investigations had been carried out at the same concentrations in the case of the two solvents. The maxima for RbCl in alcoholic solutions occurred at C = $8.9.10^{-4}$mol/l, $100N_2=2.9.10^{-3}$mol%; CsCl:C=$1.3.10^{-3}$mol/l, $100N_2=4.3.10^{-3}$mol%, and in aqueous solutions for RbCl at C=$9.3.10^{-3}$mol/l, $100N_2=1.7.10^{-3}$mol%; CsCl:C=$1.3.10^{-3}$mol/l, $100N_2=4.3.10^{-3}$mol%. Thus, the assumption concerning the shifting of the maxima toward lower concentrations at low frequencies was confirmed. Besides, the maxima for the salts investigated were found for the first time. There are 2 figures, 2 tables, and 2 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: April 27, 1959

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

86046

54.4700 (1273 only)

S/020/60/135/003/032/039
B004/B060

AUTHORS: Anikin, A. G. and Dugacheva, G. M.

TITLE: Determination of Small Thermal Effects by the Thermographic Method at Temperatures Below Zero

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 3, pp. 634 - 637

TEXT: The authors tried to approach the accuracy of a simple and rapid thermographic method to that of the calorimetric method. The system used for the purpose is illustrated in Fig.1. The measuring device consisted of a copper constantan thermocouple, a PMC-48 (PMS-48) potentiometer and an EPP-09 (EPP-09) recording potentiometer as zero instrument. The device was housed in a cryostat. The substance whose thermal effects were studied was either frozen as a drop onto the thermocouple junction, or filled into a copper foil cup (Fig.1, II). The container of the apparatus was cooled in liquid nitrogen, and evacuated to $(1-5)\cdot10^{-2}$ mm Hg. A current of 0.15 a was then passed through the heating coil, whereby a steady radiative heating was attained without direct contact between

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

Determination of Small Thermal Effects by the Thermographic Method at Temperatures Below Zero

S/020/60/135/003/032/039
B004/B060

heater and substance. The device was calibrated by means of substances with known thermal effects. The amount of liberated or absorbed heat as a function of the length L_x (mm) of the recorded platform was determined. The effect ΔH_x (cal/g) for the substance concerned was calculated from the equation: $\Delta H_x = AL_x(1/g_x)$. g_x is the weighed portion, A (cal/mm) was determined by calibration. Experiments with cyclohexane (weighed portions 0.009-0.045 g) showed that this device makes it possible to measure 0.1-0.2 cal with a maximum error of 10-15%. The melting points found for toluene, n-hexane, and n-heptane were in agreement with data available in literature within the error limits. There are 1 figure, 3 tables, and 8 references: 3 Soviet, 4 US, and 1 British.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

PRESENTED: June 20, 1960, by P. A. Rebinder, Academician

SUBMITTED: June 15, 1960

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

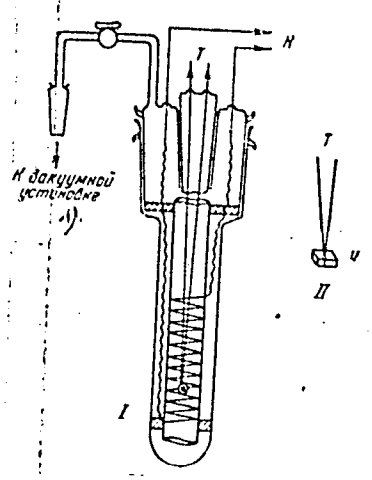


Fig.1

Card 3/3

86046

S/020/60/135/003/032/039
B004/B060

Legend to Fig.1:
Container with heater for thermal analysis (I) and cup for the determination of melting heat (II). T: thermocouple; H: heater; 1): vacuum.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

PRYANISHNIKOVA, M.A.; DUGACHEVA, G.M.; PLATE, A.F.; ANIKIN, A.G.

Temperatures of crystallization of bicylco[2.2.1]-2,5-heptadiene, cyclopheptatriene and their mixtures. Dokl.AN SSSR 132 no.4: 857-860 Je '60. (MIRA 13:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom B.A.Kazanskim.
(Bicycloheptadiene) (Cycloheptatriene)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.; DUGACHEVA, G.M.; CHUYKOV, Yu.N.

Determination of the purity and crystallization temperatures of pure hydrocarbons in amounts of 1 to 1.5 ml. Vest. Mosk. un. Ser. 2: Khim. 15 no.5:31-35 S-O '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet, kafedra fizicheskoy khimii.
(Hydrocarbons) (Crystallization)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.; KIRPICHEV, Ye.P.; GORDEYEV, I.V.

Absorption of the energy of a high frequency electric field by aqueous and alcohol solutions of alkali earth metal chlorides. Vest.Mosk.Un.Ser.2: khim. 16 no.6:23-24 N-D '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet. Laboratoriya khimicheskoy termodinamiki.
(Alkaline earth chlorides--Electric properties)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

DUGACHEVA, G.M.; ANIKIN, A.G.

Determination of purity of low-melting organic compounds taken in amounts of hundredths of a gram. Zhur. fiz. khim. 34 no. 11:2603-2606 N '60. (MIRA 14:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Heat of fusion) (Microchemistry)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

AMIKIN, A.G.; DUGACHEVA, G.M.

Determination of small thermal effects by the thermographic method at temperatures below 0°. Dokl. AN SSSR 135 no.3:634-637 N '60. (MIRA 13:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom P.A. Rebinderom.
(Thermochemistry)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.; GERASIMOV, Ya.I.; GORDEYEV, I.V.

Absorption of high-frequency radiation (6 and 11 Mc) in aqueous and alcohol (methanol) solutions of alkali metal chlorides. Vest. Mosk. un. Ser. 2: Khim. 16 no.1:42-47 Ja-F '61. (MIRA 14:4)

1. Laboratoriya khimicheskoy termodinamiki Moskovskogo universiteta.
(Alkali metal chlorides)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

S/191/62/000/012/002/015
B101/B186

AUTHORS: Anikin, A. G., Gerasimov, Ya. I., Dugacheva, G. M., Presnyakova, V. M.

TITLE: Purification of organic monomers by zone refining

PERIODICAL: Plasticheskiye massy, no. 12, 1962, 13-17

TEXT: A general survey is given on the theoretical principles of zone refining, based predominantly on non-Soviet papers. The applicability of this refining method to low-melting organic substances is discussed and the practical results are given that were obtained in the zone melting of methyl methacrylate and styrene. Zone refining was performed in an 80 mm tin plate trough immersed in liquid nitrogen. The sample was heated with a 0.5 mm nichrome coil (amperage 4 a), the molten zone being 8-9 mm wide and the rate of zone travel 1 cm/min. The initial degree of purity of methyl methacrylate of 99.2 mole-% was improved to 99.86 mole-% by remelting it 5 times and to 99.95 mole-% by remelting it 10 times. In styrene, the initial degree of purity of 98.85 mole-% improved to 99.7 mole-% when it was remelted 5 times. Working at low

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

Purification of organic monomers ...

temperatures requires the careful exclusion of atmospheric moisture. There are 5 figures and 2 tables. The most important English-language references are: J. H. Beynon, R. A. Saunders, Brit. J. Appl. Phys., 11, 128 (1960); John S. Ball, R. V. Helm, C. R. Ferrin, Petr. Engr., 30, no. 13, C-36 (1958).

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

S/076/62/036/009/002/011
B101/B180

AUTHORS: Ashin, A. A., Dugacheva, O. M., Pronyakova, V. M., and Bakeyev, S. P.

TITLE: Zone melting of methyl methacrylate

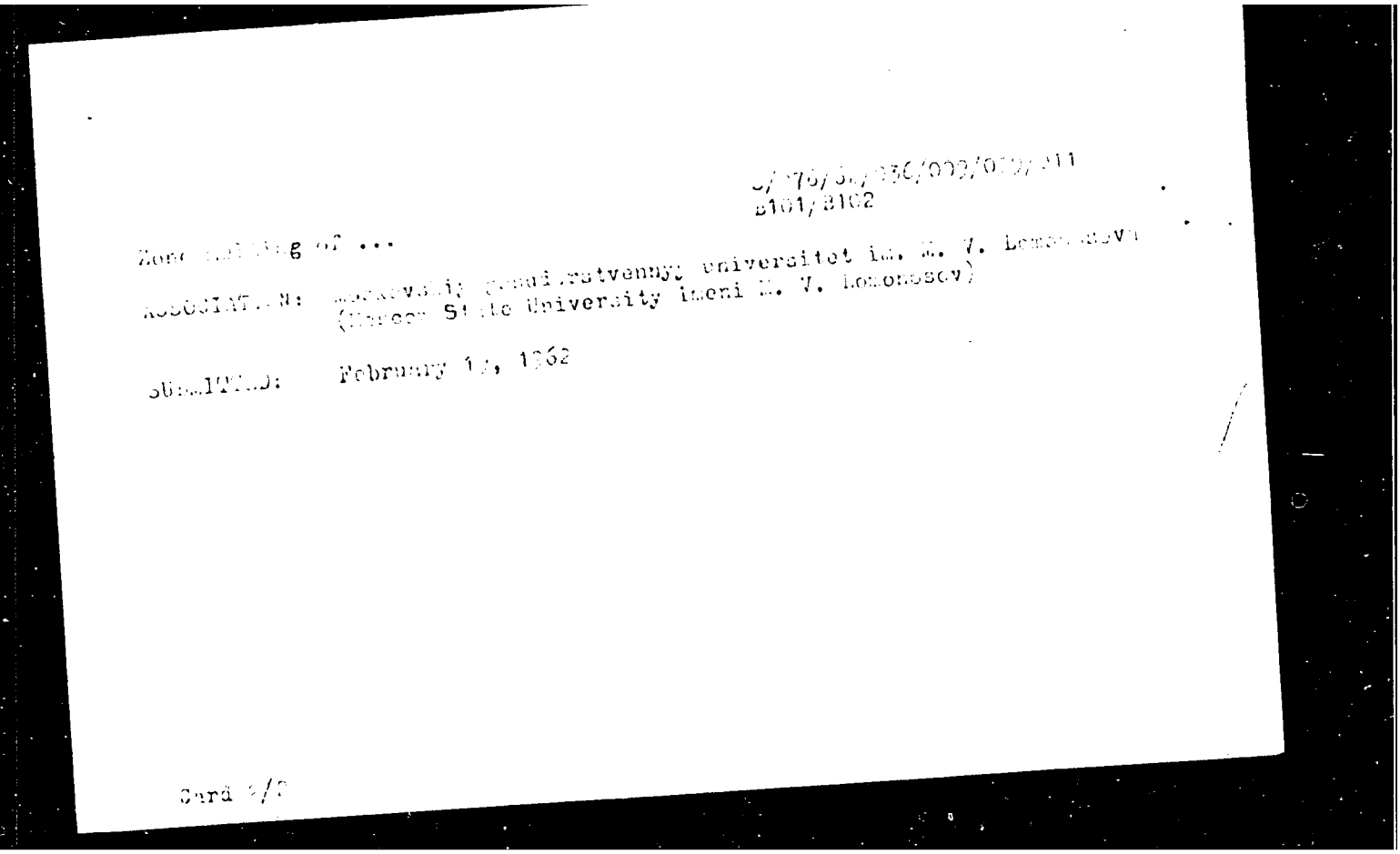
PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 9, 1962, 2074 - 2075

TEXT: The use of zone melting to purify low-melting organic substances is described by the example of methyl methacrylate (crystallization temperature -[illegible]) with an initial purity of 99.2%. The zone melting was performed in a bipolate bath 80 mm long inside a Dewar flask containing liquid nitrogen, [illegible] using a nichrome spiral of 0.5 mm diameter, heating current 4 amp with a shift of 1 cm/min. A degree of purity amounting to 99.9% was attained after five passages, and 99.95% after ten passages. The crystalline form of the samples has been described earlier (Zhur. fiz. khimii, 11, 95, 1938). Thus, it is established that organic substances crystallizing below 0°C can be purified by zone melting. There are 1 table.

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



S/[illegible]/[illegible]/[illegible]/[illegible]
B101/B102

Zone [illegible]g of ...

ASSOCIATION: [illegible]skiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: February 1[illegible], 1962

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

3(h)75
S/0[illegible]/[illegible]/001/0[illegible]/[illegible]
B[illegible]/B[illegible]

15. 8070

AUTHORS: Anikin, A. G., and Ormanets, K. V.

TITLE: Purification of methyl methacrylate by zone melting

PERIODICAL: Akademiya nauk SSSR. Doklady, v. [illegible], no. 3, [illegible], p. [illegible]

TEXT: It was tried to work out an industrial method of purifying organic monomers of low melting point with the aid of zone melting. Experiments were carried out with methyl methacrylate (MMA; m. p. ~ 50° C). MMA was poured into a tin tank (10 cm x 2 cm x 3.5 cm) till it was half filled. The tank was cooled with fluid nitrogen. For melting down, a flat spiral of Constantan wire, 0.5 - 0.7 mm in diameter, was used, which was heated by an alternating current of 6 - 9 a. Zone melting was caused by progressive motion of the spiral which immersed into the solidified MMA. The width l of the melting zone was 10 mm. The spiral passed through the tank within 10 - 20 minutes; this corresponds to a velocity of 0.017 - 0.008 cm/sec. The value of the distribution coefficient $k = c_{sol}/c_{liq}$ (c_{sol}, c_{liq} impurity concentrations in the solid or liquid phase, respectively), which

Card 1/4

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

Purification of methyl...

$(1/k)dC_n(x) = [C_{n-1}(x+1)-C_n(x)]dx$ (4) (n = number of passages; $C_n(x)$ impurity concentration in the point x after n passages of zone; l length of sample) from Refs. 6 and 7 (see below) was used for calculating the value of C/C_o after five passages. The value 0.09 was found, which is close to the value obtained experimentally. The highest possible degree of purification for MMA ($n\to\infty$) was calculated from the equation $C(x) = A\exp(Bx)$ (5) (A,B constants given by the relations $k = Bl/(\exp(Bl)-1)$, $A = C_oBL/(\exp(BL)-1)$ respectively (l length of zone)). It has been found that $C/C_o(max) = 10^{-7}$. The purity of MMA was determined cryoscopically

There are 8 references: 2 Soviet and 6 non-Soviet. The three most recent references to English-language publications read as follows: R. Handley, E. F. G. Herington, Chem. and Ind., no. 16, 304 (1956); H. Reiss, Trans. Am. Inst. of mining and metall. Engineers, 200, 1055 (1954); N. W. Lord, Trans. Am. Inst. of mining and metall. Engineers, 197, 1531 (1953).

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

Card 3/4

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.; GERASIMOV, Ya.I.; DUGACHEVA, G.M.; PRESNYAKOVA, V.M.

Refining of organic monomers by the method of zonal fusion.
Plast. massy no.12:13-17 '62. (MIRA 16:1)
(Monomers) (Crystallization)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A. G.

Crystallization column. Zhur. fiz. khim. 37 no. 3:717-719 Mr '63. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.

Principles of the crystallization column theory. Dokl. AN SSSR 151 no.5:1139-1142 Ag '63. (MIRA 16:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom N.M.Zhavoronkovym.

(Crystallization)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 18957-63 EPR/EWP(j)/EPF(c)/EWT(m)/BDS ASD Ps-4/Pr-4/Pc-4 RM/WW/
MAY/AB

ACCESSION NR: AP3006541 S/0191/63/000/009/0050/0051 75

AUTHORS: Shelepin, I. V.; Dugacheva, G. M.; Chervoneva, L. A.; Anikin, A. G.; Fedorova, A. I.

TITLE: Method of purifying and controlling degree of methylmethacrylate purity

SOURCE: Plasticheskiye massy*, no. 9, 1963, 50-51

TOPIC TAGS: methylmethacrylate, sulfuric acid, radiolysis, purification, polymerization, cryoscopic analysis

ABSTRACT: The pure methylmethacrylate (MMA) necessary for electrochemically-initiated polymerization can be obtained from commercial 99.8% MMA stabilized with hydroquinone by treating with 25% caustic solution to remove peroxides, and then with H_2SO_4 to remove carbonyl compounds and finally by distilling at reduced pressure (7mm. Hg) under oxygen-free nitrogen. The 99.99% MMA thus obtained has less than 10^{-4} mole per liter of acids. An apparatus was constructed for the cryoscopic analysis of MMA. Crystallization curves for commercial and the purified MMA are given. Orig. art. has: 2 figures.

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

DUGACHEVA, G.M.; ANIKIN, A.G.

Zonal melting and control of the degree of purity of dimethyldichlorosilane. Plast.massy no.10:21-24 '63. (MIRA 16:10)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.; DUGACHEVA, G.M.; PRESNYAKOVA, V.M.

Purification of trioxane by zone melting. Zhur.fiz.khim. 37 no.10:2363-2364 O '63. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, Aleksey Gerasimovich; DUGACHEVA, Galina Mikhaylovna; GERASIMOV, Ya.I., prof., otv. red.; PLATE, A.F., prof., otv. red.; KOROBTSOVA, N.A., red.; YERMAKOV, M.S., tekhn. red.

[Determination of the purity of organic substances] Opredelenie chistoty organicheskikh veshchestv. Otv. red. IA.I. Gerasimov, A.F.Plate. Moskva, Izd-vo Mosk. univ. 1963. 147 p. (MIRA 16:10)

1. Chlen-korrespondent AN SSSR (for Gerasimov).
(Organic compounds) (Chemistry, Analytical)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

DUGACHEVA, G.M.; ANIKIN, A.G.

Zone melting of organic substance crystallizing at temperatures up to 100° C. Zhur. fiz. khim. 38 no.1:208-210 Ja'64.
(MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 35024-65 EWT(m)/EPF(c)/EPR/EWP(j)/EWA(c) Pc-4/Pr-4/Ps-4 RPL WW/RM
UR/0189/65/000/002/0016/0019

ACCESSION NR: AP5011849

AUTHORS: Anikin, A. G.; Dugacheva, G. M.

27
26
B

TITLE: Zone melting of acetonitrile

SOURCE: Moscow. Universitet. Vestnik. Seriya 2. Khimiya, no. 2, 1965, 16-19

TOPIC TAGS: acetonitrile, zone melting

ABSTRACT: Acetonitrile was purified by the zone melting technique. The final purity of the product was 99.57 mole %. Controlled crystallization was carried out in the absence of air by slowly lowering the specimen (contained in a glass test tube) into liquid nitrogen. The change in melting point (Δt) was studied as a function of the content of acetonitrile. Up to a water content of 1.5 mole %, the freezing point depression obeys the law for ideal solution. The calculated molal freezing point constant (0.019) agrees well with literature data (0.0206) and experimental data (0.020). For mixtures containing more than 1.5 mole % of water no further depression of the freezing point was observed. Mixtures containing more than 4 mole % of water consisted of two phases. The zone melting

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

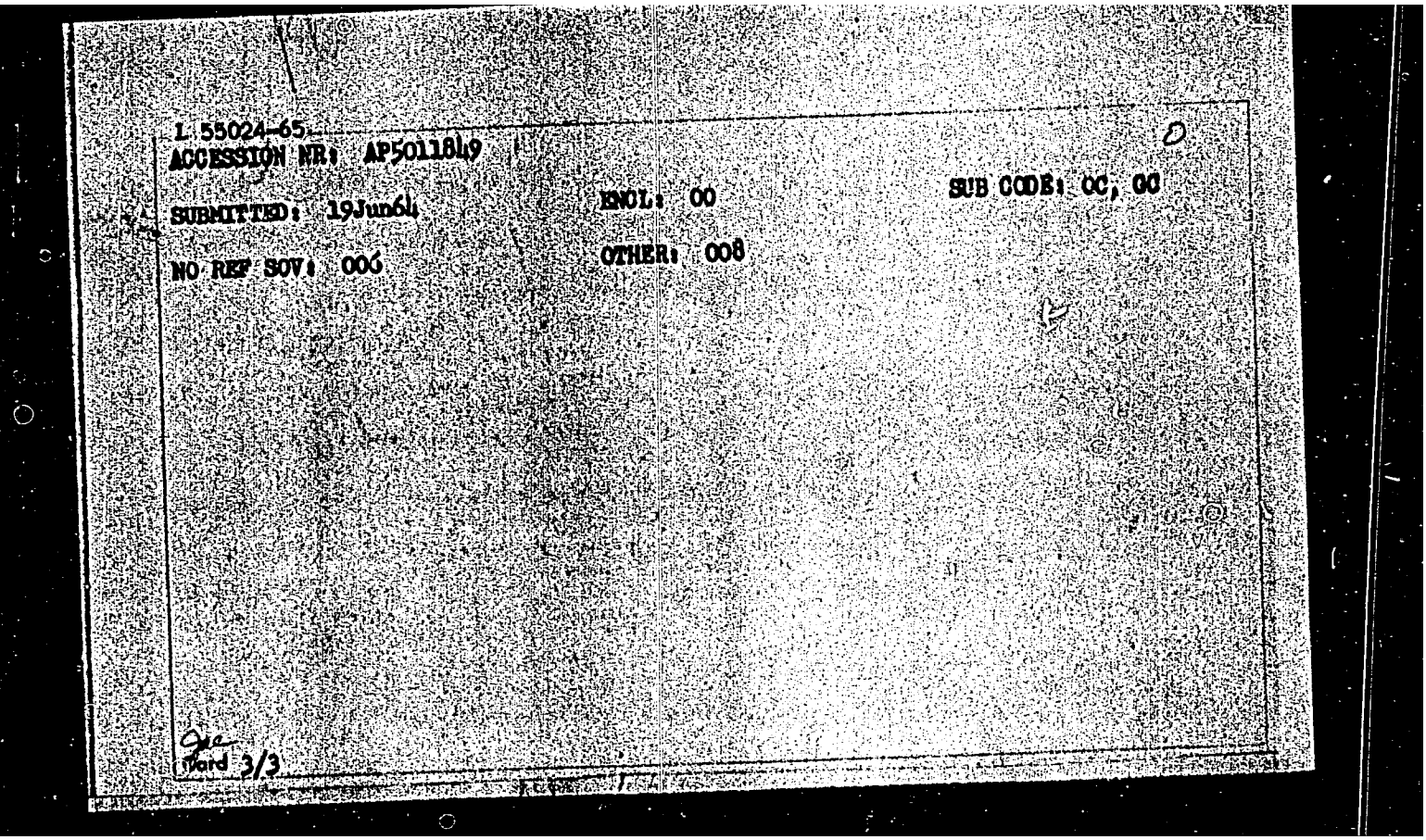
"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

method employed was that of A. G. Anikin, G. M. Dugacheva, and N. V. Avramenko (Zh. plast. massy, No. 1,20, 1965). Cooling agents employed were dry ice, dry ice and alcohol, and liquid nitrogen. The width of the molten zone was 1 cm, and the rate of passage through the zone was 2.7 cm/hour. The purity of samples was tested accordingly to the method of A. G. Anikin and G. M. Dugacheva (Dokl. AN SSSR, 119, No. 5, 939, 1958) and A. G. Anikin and G. M. Dugacheva (Opredeleniye chistoty organicheskikh veshchestv. Izd-vo MGU, 1963). The purity of the sample after five and ten zone passages was 99.93 and 99.97 mole % respectively. The initial purity of the sample was 99.57 mole %. The upper half of the sample after ten zone passages had a purity of 99.90 mole %. The experimental error in the freezing point for initial and purified acetonitrile was ±0.050 and ±0.010 respectively. The error in the impurity concentration varied between ±0.1 to ±0.01 mole % and depended on the overall content of impurities present. The effective distribution coefficient was calculated according to V. Dah. Pfann (Zonnaya plavka. Metallurgizdat, M., 1960) and was found to be 0.5. Orig. art. has: 1 table and 2 graphs.

ASSOCIATION: Moskovskiy universitet, Kafedra fizicheskoy khimii (Moscow University, Department of Physical Chemistry)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



L 55024-65
ACCESSION NR: AP5011849

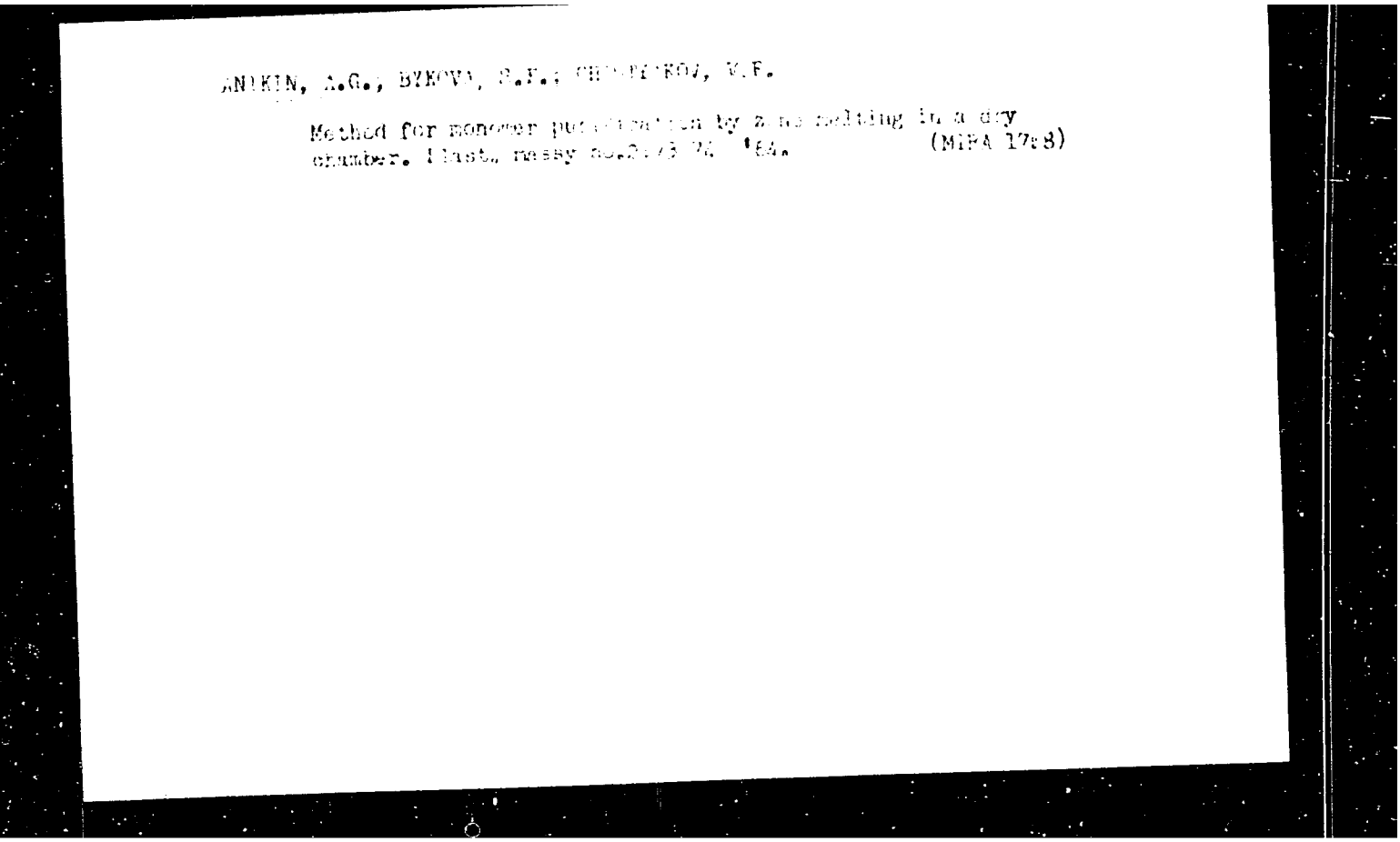
SUBMITTED: 19Jun64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 006 OTHER: 008

Gra
Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



ANIKIN, A.G., BYKOVA, P.F.; CHERNYKOV, V.F.

Method for monomer purification by zone melting in a dry chamber. Plast. massy no.2:43-44 '64. (MIRA 17:8)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ACCESSION NR: AP4039625 S/0076/64/038/005/1372/1374

AUTHORS: Anikin, A.G. (Moscow); Dugacheva, G.M. (Moscow)

TITLE: Methods and technique of physico-chemical investigation. Determining the purity of organic monomers in a hermetically closed vessel by the cryoscopic method

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 5, 1964, 1372-1374

TOPIC TAGS: chemical purity, organic monomer purity, cryoscopic purity determination, crystallization curve, melting point curve, trioxane, methylmethacrylate, dimethyldichlorosilane, octomethyl-tetracyclosiloxane, low melting organic monomer, high melting organic monomer

ABSTRACT: The equipment used for determining such purity for solids or liquids at room temperatures is figured (see enclosure). For low melting compounds an outer jacket is sealed to the equipment where vacuum for regulating the cooling rate is created. The monomer is kept under inert gas. The selection of the cooling agent depends upon the crystallization temperature of the given monomer, the heating agent upon the melting point. Purity was determined according

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ENCLOSURE: 01

ACCESSION NR: AP4039625

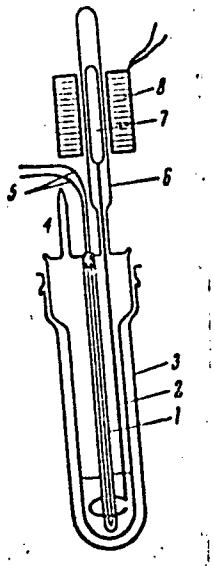


Figure 1
Vessel for determining the purity of solid organic compounds at room temperature: 1 - jacket for the thermocouple, 2- stirrer, 3 - outer tube, 4 - glass outlet for introducing and removing inert gas, 5- thermocouple, 6 - tube for the core, 7 - core, 8 - electromagnetic coil.

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.G.; DUGACHEVA, G.M.; AVRAMENKO, N.V.

Zone melting of octamethyl tetracyclosiloxane. Plast. massy no.3:20-23 '65. (MIRA 18:4)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 42998-65 EWT(m)/EWP(t)/EWP(b) JD

ACCESSION NR: AP5008921 S/0076/65/039/003/0794/0796

AUTHOR: Dugacheva, G. M.; Anikin, A. G.

TITLE: Study of the distribution of impurities in the course of zone melting

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 3, 1965, 794-796

TOPIC TAGS: zone melting, compound purification, impurity distribution, octamethyl tetracyclosiloxane, organosilicon compound

ABSTRACT: The article proposes a method which makes it possible to determine the degree of refining and to follow the distribution of impurities along the length of the sample (of organic substance) without removing any part of the latter or interrupting the zone melting process, and with simultaneous control of the temperature. The method is illustrated with octamethyltetracyclosiloxane. The device used is described. Crystallization curves were obtained, from which the quantity of impurities was determined. After five passes, the proportion of impurities was 0.01 mole %, i.e., a 36-fold decrease in their content was achieved. The disadvantage of the method is that the purity is determined without stirring, and that the conditions of thermodynamic equilibrium are upset to a certain extent. Orig. art. has: 2 figures.

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 42998-65
ACCESSION NR: AP5008921

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonovsova (Moscow State University)

SUBMITTED: 28Feb64 ENCL: 00 SUB CODE: OC

NO REF SOV: 003 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 58812-65 EWT(m)/EPF(c)/EWP(j)/EWP(t)/EWP(b) Pc-4/Pr-4 JD/JAJ/RM

ACCESSION NR: AP5015693 UR/0076/65/039/006/1507/1508
541.123

AUTHOR: Avramenko, N.V.; Anikin, A.G.; Dugacheva, G.M.

TITLE: Effect of experimental conditions on the effective distribution ratio in zone melting

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 6, 1965, 1507-1508

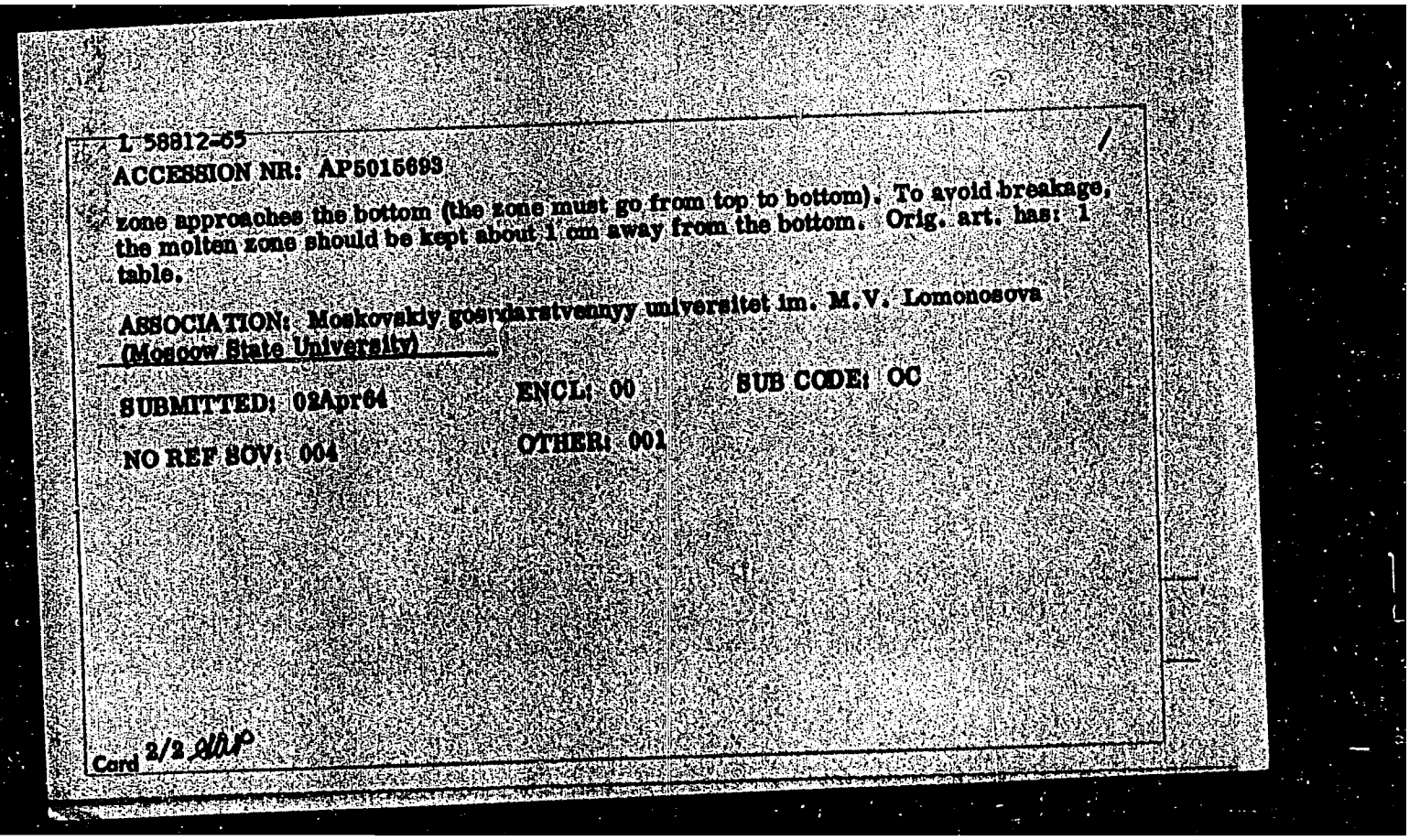
TOPIC TAGS: zone melting, zone refining, organosilicon compound

ABSTRACT: Zone melting was carried out on dimethyldichlorosilane. Factors dependent on the experimental conditions and having an adverse influence on the effective distribution ratio (temperature gradients and overheating of the zone) were kept to a minimum. The width of the zone was uniform, and an inert gas was used when necessary. As a result of five-zone passes, the upper fraction (1/10th) of dimethyldichlorosilane was purified 36-fold, i.e., until the impurity content was 0.035 mole %. Best results were obtained when the zone melting was performed in a vertical test tube; the effective distribution ratio was estimated at 0.15. After five passes, the average content of impurities in the upper half of the bar of dimethyldichlorosilane after fusion was 0.19 mole %. A disadvantage of the method is that the test tube sometimes cracks when the

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



L 58812-65

ACCESSION NR: AP5015693

zone approaches the bottom (the zone must go from top to bottom). To avoid breakage, the molten zone should be kept about 1 cm away from the bottom. Orig. art. has: 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University)

SUBMITTED: 02Apr64 ENCL: 00 SUB CODE: OC

NO REF SOV: 004 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

L 50532-65
ACCESSION NR: AP5009228 UR/0020/65/161/001/0164/0167 8

AUTHOR: Anikin, A.G.; Dugacheva, G.M.

TITLE: Zone melting of organic substances with stirring in the zone

SOURCE: AN SSSR, Doklady, v. 161, no. 1, 1965, 164-167

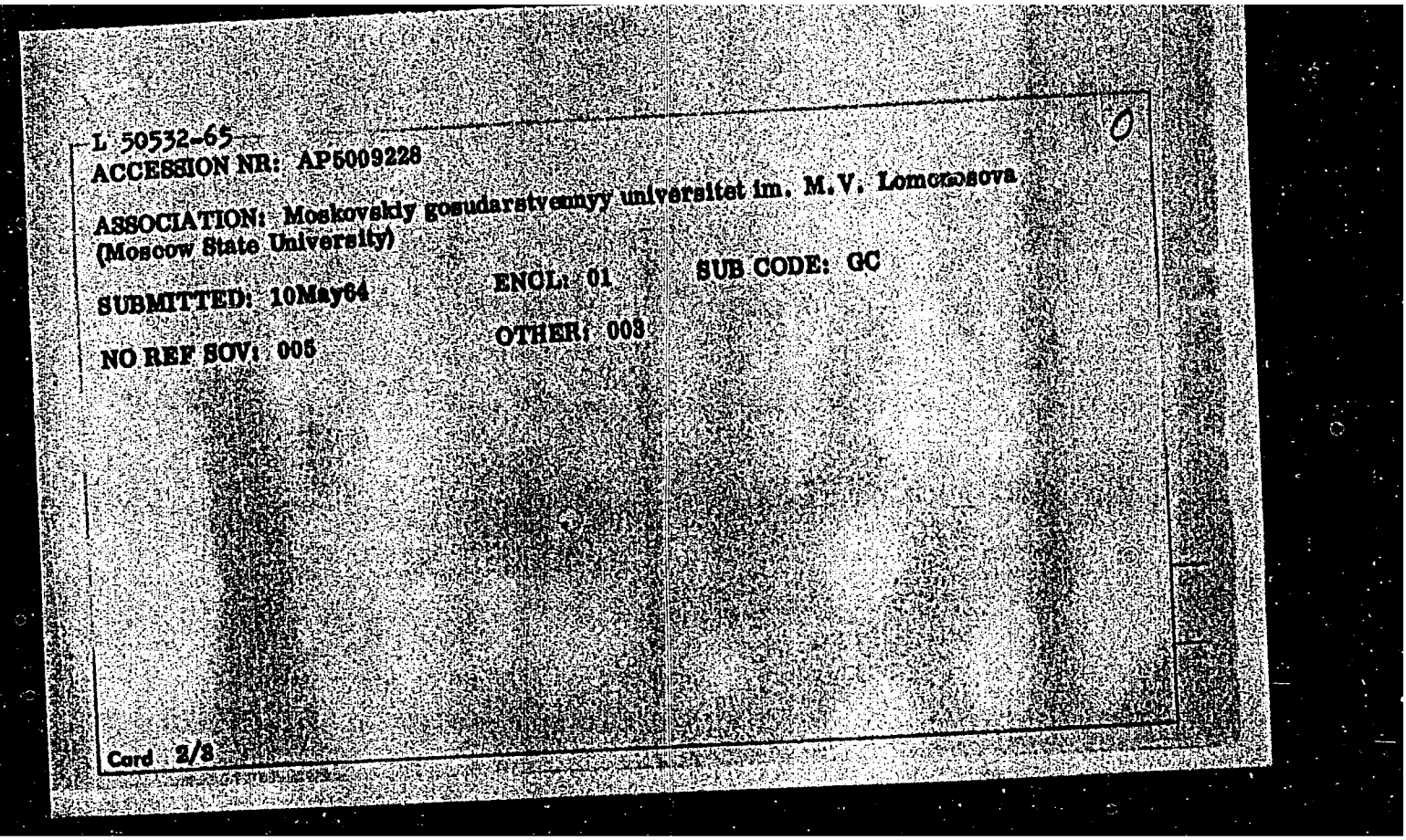
TOPIC TAGS: zone melting, organic synthesis, stearic acid, organic purification, liquid diffusion

ABSTRACT: The aim of this work was to show that it is possible to accelerate the zone melting of organic substances without decreasing the degree of purification by using forced stirring. By accelerating the diffusion in the entire liquid, the stirring reduces the thickness of the diffusion layer, and this in turn decreases the effective distribution coefficient, bringing it closer to the thermodynamic coefficient, and thus increasing the degree of purification. The authors used mechanical stirring (magnetic stirrer) in the molten zone of stearic acid (see Fig. 1 of the Enclosure). The results indicate a considerable increase in the efficiency of purification, i.e., the presence of stirring makes it possible to attain the same degree of purification in a shorter time and a higher degree of purification in the same period of time. Orig. art. has: 1 figure, 1 table and 1 formula.

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



L 50532-65
ACCESSION NR: AP5009228

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow State University)

SUBMITTED: 10May64 ENCL: 01 SUB CODE: GC

NO REF SOV: 005 OTHER: 003

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

AVRAMENKO, N.V., ANIKIN, A.G.; DOBACHEVA, G.M.

Effect of experimental conditions on the value of the effective distribution coefficient in zone melting. Zhur. fiz. khim. 39 no.6:1507-1508 Je '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova. Submitted April 7, 1964.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, Anatoliy Mikhaylovich; ANTONOVA, Roza Petrovna; BAKHTEYAROV, Vladimir Dmitriyevich; USANOV, Petr Alekseyevich, retsenzent, otv.red.; BURKOV, Vasiliy Ivanovich, retsenzent; PITERMAN, Ye.L., red.izd-va; KORNYUSHINA, A.S., tekhn.red.

[Building prefabricated wooden houses] Zavodskoe dereviannoe domostroenie. Moskva, Goslesbumizdat, 1960. 230 p. (MIRA 13:9)

(Buildings, Prefabricated) (Building, Wooden)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

VASIL'YEV, M.I., inzh.; ANIKIN, A.S., inzh.

Assembling industrial equipment for cement plants. Mont. i spets. rab. v stroi. 26 no.8:13-16 Ag '64. (MIRA 17:11)

1. Glavnoye upravleniye po montazhu tekhnologicheskogo oborudovaniya i proizvodstvu montazhnykh rabot Ministerstva stroitel'stva SSSR i TSentral'noye proyektno-konstruktorskoye otdeleniye Glavkhimmontazha.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.V.; YERPYLEVA, O.N.

Economic effectiveness of solar apparatus. Trudy Fiz.-tekh.inst. AN Turk. SSR 7:125-142 '61. (MIRA 15:2)
(Solar heating)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

SORKIN, R.A.; ANIKIN, A.V.

X-ray spectrographic determination of strontium in rocks and concentrates. Izv.AN Turk.SSR.Ser.fiz.-tekh., khim.i geol.nauk no.2:13-18 '62. (MIRA 15:4)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR.
(Strontium--Spectra)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

BELYAYEVA, G.A.; ANIKIN, A.V.

The technique of X-ray spectrographic analysis. Izv.AN Turk. SSR.Ser.fiz.-tekh., khim.i geol.nauk no.2:118-120 '62. (MIRA 15:4)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR.
(Spectrum, X-ray)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

TRAKHTENBERG, Iosif Adol'fovich, akademik; ARZUMANYAN, A.A., red.; BREGEL', E.Ya., doktor ekon. nauk, red.; KRONROD, Ya.A., doktor ekon. nauk, red.; MENDEL'SON, L.A., doktor ekon. nauk, red.; ANIKIN, A.V., kand. ekon. nauk, red.; SHEMAYEV, V.N., kand. ekon. nauk, red.; KOLOSOVA, T.A., red.; BAKOVETSKAYA, V.S., red. izd-va; NOVICHKOVA, N.D., tekhn. red.; ZUDINA, V.I., tekhn. red.

[Currency circulation and credit under capitalism]Denezhnoe obrashchenie i kredit pri kapitalizme. Moskva, Izd-vo Akad. nauk SSSR, 1962. 779 p. (MIRA 15:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Arzumanyan). (Finance)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

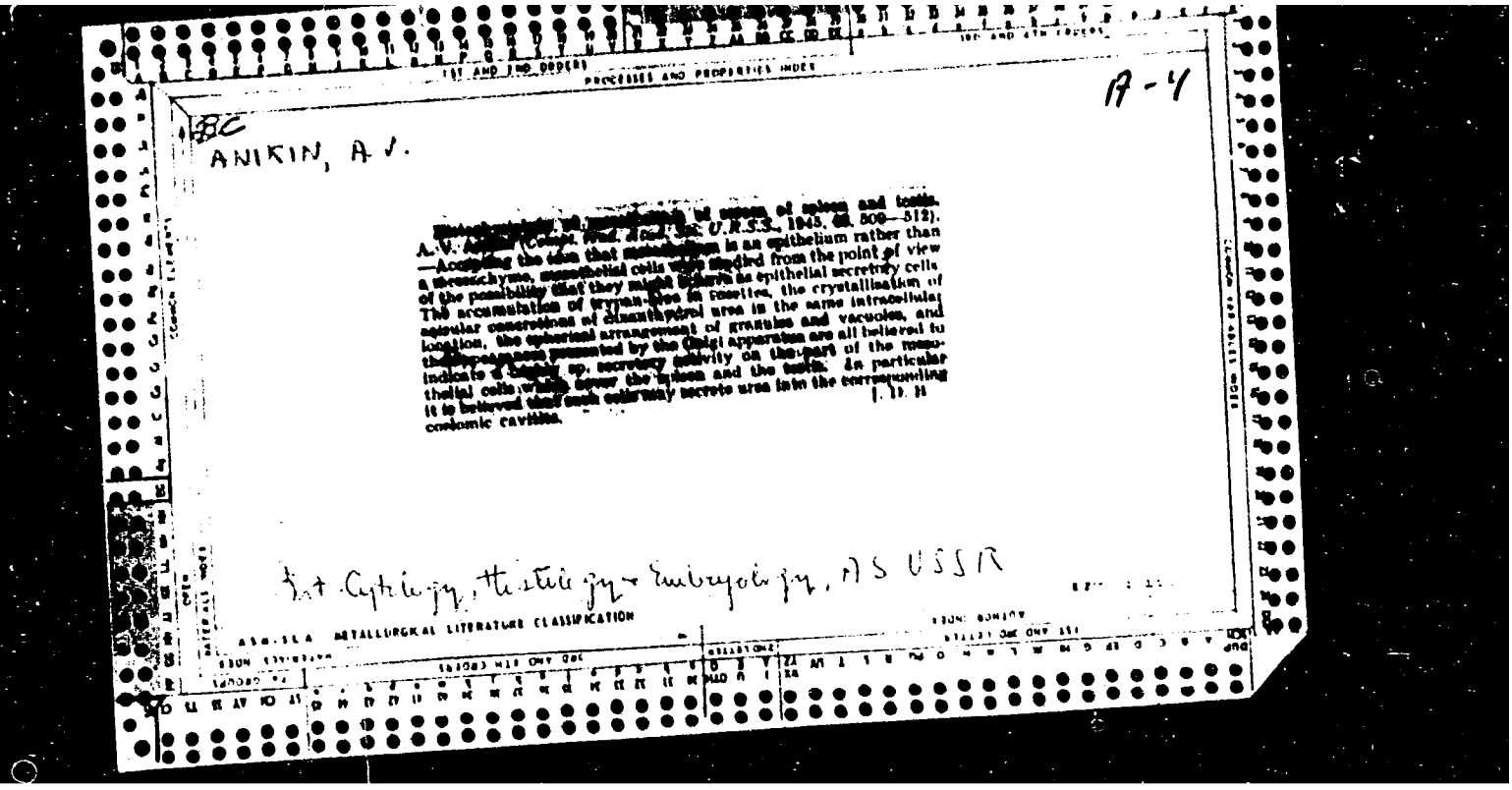
"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

DALIN, S.A.; ANIKIN, A.V.; OL'SEVICH, Yu.Ya.; GUZEVATYY, Ya.N.; DVORKIN, I.N., doktor ekon. nauk, red.; NIKOLAYEV, D.N., red.; GERASIMOVA, Ye.S., tekhn. red.

[Criticism of the theories of modern bourgeois economists] Kritika teorii sovremennykh burzhuaznykh ekonomistov. [By] S.A.Dalin i dr. S predisl. A.A.Arzumaniana. Moskva, Ekonomizdat, 1963. 211 p. (MIRA 16:7)
(Economics) (Capitalism)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4



A-4

BC

ANIKIN, A.V.

A.V. Anikin (Comptes Rend. Acad. Sci. U.R.S.S., 1945, 48, 309—312).
—Accepting the idea that mesothelium is an epithelium rather than a mesenchyme, mesothelial cells were studied from the point of view of the possibility that they might function as epithelial secretory cells. The accumulation of glycogen-free in vacuoles, the crystallisation of molecular concentrations of diaminohydrol urea in the same intracellular location, the spherical arrangement of granules and vacuoles, and the phenomena presented by the Golgi apparatus are all believed to indicate a heightened secretory activity on the part of the mesothelial cells which cover the spleen and the testis. In particular it is believed that such cells may secrete urea into the corresponding coelomic cavities.

Inst. Cytology, Histology + Embryology, AS USSR

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.V.

Neuroregulation of metabolism in splenic mesothelium. Arkh. anat., Moskva 29 no.5:14-30 Sept-Oct 1952. (CLML 23:2)

1. Of the Department of Histology and Embryology (Acting Head -- A. V. Anikin), First Moscow Order of Lenin Medical Institute.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A. V.

Dissertation: "Change of the Type and Productivity of Cattle of the Tatar Region of Siberia for a 20-year Period." Cand Agr Sci, Moscow Fur and Pelt Inst, 12 Apr 54. (Vechernyaya Moskva, Moscow, 14 Apr 54)

SO: SUM 243, 19 Oct 1954

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.V.

Influence of partial removal of the cerebral cortex on the specific cellular metabolism of the splenic mesothelium and on the regeneration of the corneal mesothelium and epithelium. (MIRA 12:10)
Trudy 1-go MMI 2:180-185 '57.
(CEREBRAL CORTEX) (SPLEEN) (CORNEA)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A. V.: Doc Med Sci (diss) -- "The mesothelium: its morphology, function, and regeneration". Moscow, 1959. 26 pp (First Moscow Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, No 12, 1959, 131)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, Aleksandr Vasilyevich for Doctor of Medical Sciences on the basis of the dissertation defended 16 March 1959 in the Council of the First Moscow Order of Lenin Medical Institute im. Sechenov, entitled: "Mesothelium, its Morphology, Functions, and Regeneration".

(BMViSSO USSR, 2-61, 19)

77
19

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, A.V.; BELYAYEVA, G.A.; CHURBANOV, I.M.

Quick method for qualitative analysis of samples in X-ray spectra. Izv.AN Turk.SSR.Ser.fiz.-tekh.,khim.i geol.nauk. no.3:120-121 '62. (MIRA 16:5)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR.
(X-rays spectroscopy) (Chemistry, Analytical—Qualitative)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, B. P.

Mekhanizatsiia lesorazrabotok. Dop. v kachestve uchebnika dlia lesotekhn. i lesokhoziaistvennykh vuzov. Moskva, Goslesbumizdat, 1949-50. 2 v. illus.

Vol. 1: 2d ed.; v. 2, by K. M. Ashkenazi, 3d ed.

Includes bibliographies

Mechanization of forest exploitation.

DLC: TS 850.A56

SO: Manufacturing and Mechanical Engineering in the Soviet Union. Library of Congress, 1953.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

SOV/117-58-12-11/36

AUTHOR: Anikin, B.S.

TITLE: Side Valve Air Shift (Zolotnikovyy pereklyuchatel' vozdukha)

PERIODICAL: Mashinostroitel', 1958, Nr 12, p 15 (USSR)

ABSTRACT: Information is given on the design and operation of a new pedal-operated side-valve air shift, replacing the manual three-way crane operating the pneumatic cylinder in machines for the assembly and dismantling of valves. The described device is simple and handy. There is 1 set of diagrams.

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, B.S.

Case of chronic basophilic leukemia. Problemy gematol. i perel. krovi 8 no.8:50-51 Ag '63. (MIRA 17:8)

1. Iz terapevticheskogo otdeleniya (zav. Ye.M. Kurbatova) Kemerovskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach Ye.P. Nechayeva).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

USSR / Human and Animal Physiology (Normal and Pathological). T
Digestion.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60435

Author : Anikin, G. D.
Inst : Ivanovo Medical Institute
Title : Changes in the Periodic Motor Gastric Function in Dogs with Renal Colic

Orig Pub : Sb. nauchn. tr. Ivanovsk. med. in-ta, 1957, Vyp. 12, 214-217

Abstract : Experimental renal colic, produced in dogs by pressure on the ureter, interfered with the periodic motor activity of the stomach. It came back to normal after 3 - 5 days.

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, G. D., Cand of Med Sci -- (diss) "On the Character and Mechanism of Disturbances to the Stomach Function During and Experimental [redacted] Kidney Colic," Ivanovo, 1959, 12 pp (Ivanovo State Medical Institute) (KL, 5-60, 129)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, G.D.; BERKHIN, Ye.B.

Comparative determination of glomerular filtration in dogs by means of the inulin and creatine methods. Fiziol.zhur. 48 no.12:1494-1497 D '62. (MIRA 16:2)

1. From the Department of Pharmacology, Altai Medical Institute, Barnaul.

(KIDNEYS) (INULIN) (CREATININE)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, G.D.

Reflex influences from the mechanoreceptors of the urinary tract and kidneys on the functional state of the stomach. Fiziol. zhur. 49 no.1:92-97 Ja '63. (MIRA 17:2)

1. From the Department of Pharmacology, Medical Institute, Ivanovo.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, G.B.

Changes in urinary excretion following introduction of adrenaline into the renal artery. Biul. eksp. biol. i med. 57 no.4:73-77 Ap '64. (MIRA 18:3)

1. Kafedra farmakologii (zav. - prof. Ye.B. Berkhin) Altayskogo meditsinskogo instituta, Barnaul. Submitted April 28, 1963.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ANIKIN, G. V., ALEKSANDROV, Yu. A., SOLDATOV, A. S.

"Fast Neutron Spectrometry by Means of a Hydrogen Chamber."

paper presented at the Symposium of the International Atomic Energy Agency on Pile Neutron Research in Physics, Vienna, 17-21 Oct 1960.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

21406
S/089/61/011/006/002/014
B102/B136

24.1000

AUTHORS: Leypunskiy, A. I., Abramov, A. I., Aleksandrov, Yu. A., Anikin, G. V., Bondarenko, I. I., Guseynov, A. G., Ivanov, V. I., Kazachkovskiy, O. D., Kuznetsov, V. F., Kuz'minov, B. D., Morozov, V. N., Nikolayev, M. N., Sal'nikov, O. A., Smirenkin, G. N., Soldatov, A. S., Usachev, L. N., Yutkin, M. G.

TITLE: Investigation of the BR-5 (BR-5) fast reactor (spatial and energy distributions of neutrons)

PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 498 - 505

TEXT: The fast research reactor BR-5 and its experimental equipment is described in brief and some of its neutron spectra are given and discussed. The following data are given: fuel - plutonium oxide; coolant - sodium; reflector - thin layer of natural uranium plus thick layer of nickel; power - 5000 kw. The reactor has many vertical and horizontal holes for technical and physical studies and is well supplied with experimental equipment. Leypunskiy gave a detailed description of the BR-5 reactor at

Card 1/

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

Investigation of the...

the Second Geneva Conference (1958). Inside the core the neutrons have energies of more than 100 kev which they lose almost completely in passage through reflector and shield. In the outer layers of the shield, their mean energy does not exceed some tens of ev. In the kev range (E_n>50 kev) spectra were measured for the most important beams and channels. For the other cases, they were determined from threshold reactions. The soft part of the spectrum within the reflector was determined from the spatial distribution of neutrons with $E_n \simeq 5$ ev, recorded with gold resonance indicators. The total neutron flux was determined only at the points where the Pu^{239} fission cross section was constant. Direct neutron spectrum measurements were carried out in a vertical (OK-70) and a horizontal (B-3) channel using (He^3+Ar)-filled ionization chamber in the first case and the neutron transmission method with n-hexane in the second. The neutron spectrum of the horizontal channel was also determined by photoemulsions. From the rates of indicator and fission reactions $Au^{197}(n,\gamma)$, $U^{235}(n,f)$ $Pu^{239}(n,f)$, $Th^{232}(n,f)$, $Na^{23}(n,\gamma)$ $Cu^{63}(n,\gamma)$, and $Al^{27}(n,\alpha)$ the abrupt

Card 2/

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4

ALEKSANDROV, Yu.A.; ANIKIN, G.V.; SOLDATOV, A.S.

Scattering of 0.8 and 2.8 Mev. neutrons in the region of small angles. Zhur. eksp. i teor. fiz. 40 no.6:1878-1879 Je '61. (MIRA 14:8)

(Neutrons--Scattering)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620007-4"